

for both of these insects is fumigation with bisulphide of carbon. The most convenient way to fumigate is to place the seed in an ordinary coal-oil barrel, and pour on to it one ounce of the bisulphide of carbon for every 100 pounds of grain, then close the barrel tightly, first with a wet canvas or cloth, and on the top of this boards, which should be left undisturbed for at least two days.

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MOSQUITO NOTES.—No. 5.

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From the Island of Mindanao, P. I., comes a very pretty mosquito.

*Toxorhynchites argenteotarsis*, n. sp.—♀. Head densely covered with very dark brown flat scales, with bronze-blue iridescence, a light blue-white band around the eyes, and a few brown bristles; antennæ dark brown, the basal joint densely covered with flat white scales; palpi with very dark brown, almost black, scales, bronze-blue iridescence, the penultimate and antipenultimate joints with narrow violet apical bands; proboscis very dark, practically black, with bright bronze-blue iridescence; eyes black, clypeus black.

Thorax brown; prothoracic lobes well covered with flat spatulate light greenish-blue, almost white, scales, and a row of brown bristles; mesothorax with bronze-brown spindle-shaped scales on the centre of the dorsum, and a broad border of light blue-green flat spatulate scales running nearly all the way around the mesothorax, the scales just cephalad of the scutellum being also of this character; a bunch of deep orange, or orange-brown bristles over the wing joint, a bare space just dorsad of the pleura extending from the prothoracic lobes to the wing joint; scutellum covered with small flat and long spatulate green-blue scales, and long dark orange-coloured bristles; pleura brown, rather well covered with white scales; metanotum dark brown.

Abdomen dark brown, covered for the most part with blue-green iridescent flat scales. First segment with blue-green median line, and light yellow scales laterally; second, third and fifth segments with large light yellow lateral spots extending well up on the dorsum; on the fourth the lateral spot is not noticeable from a dorsal view; sixth and seventh are more blue than green, and darker than the preceding segments; the sixth with orange, the seventh with black tufts; the eighth segment is

nearly purple, and has an orange tuft; venter with light yellow scales laterally, and an irregular median dark blue stripe extending the whole length of the abdomen.

Legs: Coxæ and trochanters dark, with brilliant light yellow scales; femora of fore legs light-scaled at base, with dark iridescent scales on the dorsal aspect for the distal two-thirds of its length; femora of mid-legs dark; femora of hind legs light for the proximal two-thirds, all a yellowish white ventrally; tibiæ of fore legs dark dorsally and light ventrally, except the very base and apex, which are a brilliant golden yellow; tibiæ of mid-legs mostly golden yellow, darker near the base, and a band of dark scales at the apex; tibiæ of hind legs dark blue, with green iridescence; metatarsi of fore legs nearly white, except a small basal spot of dark blue on the ventral aspect; of mid-leg nearly white, except a rather large dark spot on the dorsal surface; of hind legs dark blue, except a light basal band; 1st tarsal of fore leg is white, except an apical dark band, all the remaining joints dark; 1st tarsal on mid-leg and all the following are light yellow to white, except the last, which has a brown tip; 1st tarsal of hind legs is light, with a tiny dark apex, all the rest of the joints dark. Ungues simple and equal. In some lights there is a very narrow apical band of violet on all the femora, and on the mid and hind tibiæ reddish.

Wing clear reddish brown, sparsely scaled with brown, broadly truncate scales; 1st submarginal cell very short, very little more than half the length of 2nd posterior, and much narrower; mid and posterior cross-veins meet, and are about the same length; supernumerary cross-vein about half the length of mid, and three times its own length exterior to mid. Halteres orange brown.

There is a strong fold near fifth long vein, so that it makes a curvature in the margin of the wing.

Length, 12 + mm.

Habitat, Margosatubig, Mindanao, Philippine Islands.

Taken June and July.

Described from five specimens sent by Dr. H Newton Kierulf, Cont. Surg. U. S. Army, and evidently lies near *speciosus*, Skuse, and *Marshallii*, Theob., and may easily be the female of a species in which only the male has been known, but at all events it is sufficiently unlike such descriptions as I have been able to find to warrant my assuming it to be new.

(To be continued.)